

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
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Application Serial Number: 10/520,126
Source: PT
Date Processed by STIC: 3/3/06

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/520,126

DATE: 03/13/2006
TIME: 12:12:23

Input Set : A:\2005-09-21_3691-0114PUS1.ST25.txt
Output Set: N:\CRF4\03132006\J520126.raw

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3 <110> APPLICANT: Sode, Koji
5 <120> TITLE OF INVENTION: Glucose Dehydrogenase
7 <130> FILE REFERENCE: 3691-0114PUS1
9 <140> CURRENT APPLICATION NUMBER: US 10/520,126
10 <141> CURRENT FILING DATE: 2005-01-03
12 <150> PRIOR APPLICATION NUMBER: PCT/JP03/08418
13 <151> PRIOR FILING DATE: 2002-07-02
15 <150> PRIOR APPLICATION NUMBER: JP 2003-71760
16 <151> PRIOR FILING DATE: 2003-03-17
18 <150> PRIOR APPLICATION NUMBER: JP 2002-196177
19 <151> PRIOR FILING DATE: 2002-07-04
21 <160> NUMBER OF SEQ ID NOS: 19
23 <170> SOFTWARE: PatentIn version 3.3
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 454
27 <212> TYPE: PRT
28 <213> ORGANISM: Acinetobacter calcoaceticus
30 <400> SEQUENCE: 1
31 Asp Val Pro Leu Thr Pro Ser Gln Phe Ala Lys Ser Glu Asn
32      1          5          10          15
33 Phe Asp Lys Lys Val Ile Leu Ser Asn Leu Asn Lys Pro His Ala Leu
34      20         25          30
35 Leu Trp Gly Pro Asp Asn Gln Ile Trp Leu Thr Glu Arg Ala Thr Gly
36      35         40          45
37 Lys Ile Leu Arg Val Asn Pro Glu Ser Gly Ser Val Lys Thr Val Phe
38      50         55          60
39 Gln Val Pro Glu Ile Val Asn Asp Ala Asp Gly Gln Asn Gly Leu Leu
40      65         70          75          80
41 Gly Phe Ala Phe His Pro Asp Phe Lys Asn Asn Pro Tyr Ile Tyr Ile
42      85         90          95
43 Ser Gly Thr Phe Lys Asn Pro Lys Ser Thr Asp Lys Glu Leu Pro Asn
44      100        105         110
45 Gln Thr Ile Ile Arg Arg Tyr Thr Tyr Asn Lys Ser Thr Asp Thr Leu
46      115        120         125
47 Glu Lys Pro Val Asp Leu Leu Ala Gly Leu Pro Ser Ser Lys Asp His
48      130        135         140
49 Gln Ser Gly Arg Leu Val Ile Gly Pro Asp Gln Lys Ile Tyr Tyr Thr
50      145        150         155         160
51 Ile Gly Asp Gln Gly Arg Asn Gln Leu Ala Tyr Leu Phe Leu Pro Asn
52      165        170         175
53 Gln Ala Gln His Thr Pro Thr Gln Gln Glu Leu Asn Gly Lys Asp Tyr
54      180        185         190
55 His Thr Tyr Met Gly Lys Val Leu Arg Leu Asn Leu Asp Gly Ser Ile

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56	195	200	205
57	Pro Lys Asp Asn Pro Ser Phe Asn Gly Val Val Ser His Ile Tyr Thr		
58	210	215	220
59	Leu Gly His Arg Asn Pro Gln Gly Leu Ala Phe Thr Pro Asn Gly Lys		
60	225	230	235
61	240		
62	Leu Leu Gln Ser Glu Gln Gly Pro Asn Ser Asp Asp Glu Ile Asn Leu		
63	245	250	255
64	Ile Val Lys Gly Gly Asn Tyr Gly Trp Pro Asn Val Ala Gly Tyr Lys		
65	260	265	270
66	Asp Asp Ser Gly Tyr Ala Tyr Ala Asn Tyr Ser Ala Ala Asn Lys		
67	275	280	285
68	Ser Ile Lys Asp Leu Ala Gln Asn Gly Val Lys Val Ala Ala Gly Val		
69	290	295	300
70	Pro Val Thr Lys Glu Ser Glu Trp Thr Gly Lys Asn Phe Val Pro Pro		
71	305	310	315
72	320		
73	Leu Lys Thr Leu Tyr Thr Val Gln Asp Thr Tyr Asn Tyr Asn Asp Pro		
74	325	330	335
75	Thr Cys Gly Glu Met Thr Tyr Ile Cys Trp Pro Thr Val Ala Pro Ser		
76	340	345	350
77	Ser Ala Tyr Val Tyr Lys Gly Gly Lys Lys Ala Ile Thr Gly Trp Glu		
78	355	360	365
79	77 Asn Thr Leu Leu Val Pro Ser Leu Lys Arg Gly Val Ile Phe Arg Ile		
80	370	375	380
81	Lys Leu Asp Pro Thr Tyr Ser Thr Thr Tyr Asp Asp Ala Val Pro Met		
82	385	390	395
83	400		
84	Phe Lys Ser Asn Asn Arg Tyr Arg Asp Val Ile Ala Ser Pro Asp Gly		
85	405	410	415
86	Asn Val Leu Tyr Val Leu Thr Asp Thr Ala Gly Asn Val Gln Lys Asp		
87	420	425	430
88	85 Asp Gly Ser Val Thr Asn Thr Leu Glu Asn Pro Gly Ser Leu Ile Lys		
89	435	440	445
90	Phe Thr Tyr Lys Ala Lys		
91	450		
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93	<211> LENGTH: 1612		
94	<212> TYPE: DNA		
95	<213> ORGANISM: Acinetobacter calcoaceticus		
96	<400> SEQUENCE: 2		
97	97 agctactttt atgcaacaga gcctttcaga aattttagatt ttaatagatt cgttattcat 60		
98	cataatacaa atcatataga gaactcgtac aaacccttta tttagaggttt aaaaattctc 120		
99	ggaaaatttt gacaatttat aagggtggaca catgaataaa catttattgg ctaaaattgc 180		
100	tttattaagc gctgttcagc tagttacact ctcagcattt gctgatgttc ctctaactcc 240		
101	atctcaattt gctaaagcga aatcagagaa ctttgacaag aaagttattc tatctaattct 300		
102	aaataagccg catgcttgt tatggggacc agataatcaa atttggtaa ctgagcgagc 360		
103	aacaggttaag attctaagag ttaatccaga gtcgggtagt gtaaaaaacag ttttcaggt 420		
104	accagagatt gtcaatgtg ctgatgggca gaatggttt ttaggtttg ccttccatcc 480		
105	tgattttaaa aataatcctt atatctatat ttcaaggtaa tttaaaaatc cgaaatctac 540		
106	106 agataaaagaa ttaccgaacc aaacgattat tcgtcggtat acctataata aatcaacaga 600		
107	tacgctcgag aagccagtcg atttattagc aggattacct tcatcaaaag accatcagtc 660		

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108 aggtcgtctt gtcattgggc cagatcaaaa gatttattat acgattggtg accaaggcg 720
109 taaccagctt gcttatttgt tcttgccaaa tcaagcacaa catacgccaa ctcaacaaga 780
110 actgaatggt aaagactatc acacctataat ggtaaagta ctacgctaa atcttcatgg 840
111 aagtattcca aaggataatc caagtttaa cggttgggtt agccatattt atacacttgg 900
112 acatcgtaat ccgcaggct tagcattcac tccaaatggt aaattatgc agtctgaaca 960
113 aggcccaaac tctgacgatg aaattaacctt cattgtcaaa ggtggcaattt atggttggcc 1020
114 gaatgttagca ggttataaag atgatagtgg ctatgtttt gcaaattattt cagcagcagc 1080
115 caataagtca attaaggatt tagctcaaaa tggagtaaaa gtagccgcag gggccctgt 1140
116 gacgaaagaa tctgaatggc ctggtaaaaaa ctttgcctt ccattaaaaa ctttatatac 1200
117 cgttcaagat acctacaact ataacgatcc aacttgcgg aagatgaccc acatttgctg 1260
118 gccaacagt gcacccgtcat ctgcctatgt ctataaggcc ggtaaaaaag caattactgg 1320
119 ttggaaaaat acattattgg ttccatctt aaaacgtgtt gtcatttcc gtattaagtt 1380
120 agatccaact tatagcacta cttatgtatgca cgctgtaccg atgtttaaga gcaacaaccg 1440
121 ttatcgatgt gtagttgaa gtccagatgg gaatgtttaa ctgataactgc 1500
122 cggaaatgtc caaaaagatg atggctcaat aacaataca tttagaaaaacc caggatctct 1560
123 cattaagttc acctataagg ctaagtaata cagtcgcatt aaaaaaccga tc 1612
126 <210> SEQ ID NO: 3
127 <211> LENGTH: 8
128 <212> TYPE: PRT
129 <213> ORGANISM: Acinetobacter calcoaceticus
131 <220> FEATURE:
132 <221> NAME/KEY: misc_feature
133 <222> LOCATION: (4)..(5)
134 <223> OTHER INFORMATION: Xaa can be any amino acid provided that when Xaa at pos. 4
is Gln, then
135 Xaa at pos. 5 is not Leu
137 <400> SEQUENCE: 3
W--> 138 Gly Arg Asn Xaa Xaa Ala Tyr Leu
139 1 5
142 <210> SEQ ID NO: 4
143 <211> LENGTH: 21
144 <212> TYPE: DNA
145 <213> ORGANISM: Artificial Sequence
147 <220> FEATURE:
148 <223> OTHER INFORMATION: synthetic primer for point mutation
150 <400> SEQUENCE: 4
151 ataagcaagc gggtaacgcc c 21
154 <210> SEQ ID NO: 5
155 <211> LENGTH: 27
156 <212> TYPE: DNA
157 <213> ORGANISM: Artificial Sequence
159 <220> FEATURE:
160 <223> OTHER INFORMATION: synthetic primer for point mutation
162 <400> SEQUENCE: 5
163 caaataagca agccgttac gcccttg 27
166 <210> SEQ ID NO: 6
167 <211> LENGTH: 21
168 <212> TYPE: DNA
169 <213> ORGANISM: Artificial Sequence
171 <220> FEATURE:

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Input Set : A:\2005-09-21_3691-0114PUS1.ST25.txt
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172 <223> OTHER INFORMATION: synthetic primer for point mutation
174 <400> SEQUENCE: 6
175 caaataagca gcctggttac g 21
178 <210> SEQ ID NO: 7
179 <211> LENGTH: 27
180 <212> TYPE: DNA
181 <213> ORGANISM: Artificial Sequence
183 <220> FEATURE:
184 <223> OTHER INFORMATION: synthetic primer for point mutation
186 <400> SEQUENCE: 7
187 gaacaaataaa gcaccctgg tacgcc 27
190 <210> SEQ ID NO: 8
191 <211> LENGTH: 26
192 <212> TYPE: DNA
193 <213> ORGANISM: Artificial Sequence
195 <220> FEATURE:
196 <223> OTHER INFORMATION: synthetic primer for point mutation
198 <400> SEQUENCE: 8
199 cctgacttat gttctttga tgaagg 26
202 <210> SEQ ID NO: 9
203 <211> LENGTH: 27
204 <212> TYPE: DNA
205 <213> ORGANISM: Artificial Sequence
207 <220> FEATURE:
208 <223> OTHER INFORMATION: synthetic primer for point mutation
210 <400> SEQUENCE: 9
211 catcttttg gacagttccg gcagtat 27
214 <210> SEQ ID NO: 10
215 <211> LENGTH: 27
216 <212> TYPE: DNA
217 <213> ORGANISM: Artificial Sequence
219 <220> FEATURE:
220 <223> OTHER INFORMATION: synthetic primer for point mutation
222 <400> SEQUENCE: 10
223 caaataagca agcaggttac gcccttg 27
226 <210> SEQ ID NO: 11
227 <211> LENGTH: 27
228 <212> TYPE: DNA
229 <213> ORGANISM: Artificial Sequence
231 <220> FEATURE:
232 <223> OTHER INFORMATION: synthetic primer for point mutation
234 <400> SEQUENCE: 11
235 caaataagca agaaagttac gcccttg 27
238 <210> SEQ ID NO: 12
239 <211> LENGTH: 27
240 <212> TYPE: DNA
241 <213> ORGANISM: Artificial Sequence
243 <220> FEATURE:
244 <223> OTHER INFORMATION: synthetic primer for point mutation

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246 <400> SEQUENCE: 12
247 caaataagca aggctgttac gcccttg 27
250 <210> SEQ ID NO: 13
251 <211> LENGTH: 27
252 <212> TYPE: DNA
253 <213> ORGANISM: Artificial Sequence
255 <220> FEATURE:
256 <223> OTHER INFORMATION: synthetic primer for point mutation
258 <400> SEQUENCE: 13
259 caaataagca aggttgttac gcccttg 27
262 <210> SEQ ID NO: 14
263 <211> LENGTH: 27
264 <212> TYPE: DNA
265 <213> ORGANISM: Artificial Sequence
267 <220> FEATURE:
268 <223> OTHER INFORMATION: synthetic primer for point mutation
270 <400> SEQUENCE: 14
271 caaataagca agatcggttac gcccttg 27
274 <210> SEQ ID NO: 15
275 <211> LENGTH: 27
276 <212> TYPE: DNA
277 <213> ORGANISM: Artificial Sequence
279 <220> FEATURE:
280 <223> OTHER INFORMATION: synthetic primer for point mutation
282 <400> SEQUENCE: 15
283 caaataagca agttcggttac gcccttg 27
286 <210> SEQ ID NO: 16
287 <211> LENGTH: 27
288 <212> TYPE: DNA
289 <213> ORGANISM: Artificial Sequence
291 <220> FEATURE:
292 <223> OTHER INFORMATION: synthetic primer for point mutation
294 <400> SEQUENCE: 16
295 caaataagca agtttgttac gcccttg 27
298 <210> SEQ ID NO: 17
299 <211> LENGTH: 27
300 <212> TYPE: DNA
301 <213> ORGANISM: Artificial Sequence
303 <220> FEATURE:
304 <223> OTHER INFORMATION: synthetic primer for point mutation
306 <400> SEQUENCE: 17
307 gaacaaataa gccatctggc tacggcc 27
310 <210> SEQ ID NO: 18
311 <211> LENGTH: 27
312 <212> TYPE: DNA
313 <213> ORGANISM: Artificial Sequence
315 <220> FEATURE:
316 <223> OTHER INFORMATION: synthetic primer for point mutation
318 <400> SEQUENCE: 18

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 03/13/2006
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Input Set : A:\2005-09-21 3691-0114PUS1.ST25.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; Xaa Pos. 4,5

VERIFICATION SUMMARY
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Input Set : A:\2005-09-21_3691-0114PUS1.ST25.txt
Output Set: N:\CRF4\03132006\J520126.raw

L:138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0